R&S®VENICE
On air. 24/7.

www.rohde-schwarz.com/venice

ROHDE & SCHWARZ

We proudly present our new R&S®VENICE

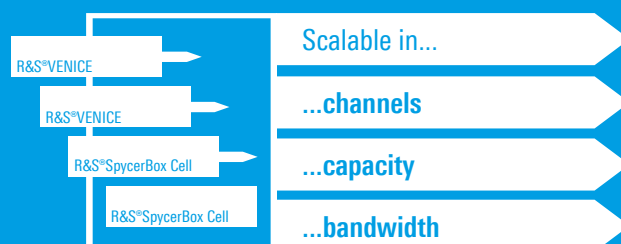**Control** **View** **VDCP** and **FIMS**
Play **Maintenance**

Different applications and protocols for every possible workflow
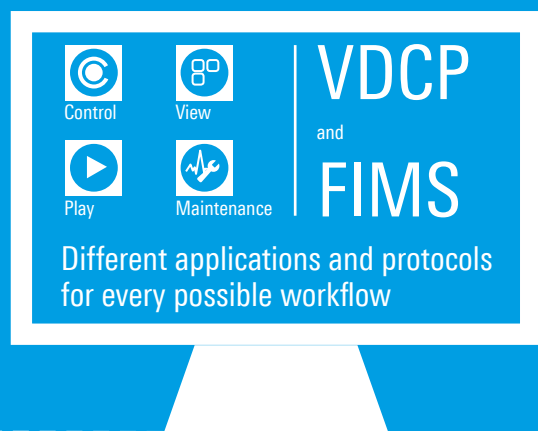
24 7 365 on-air reliability

Reliability – Sustainability – Scalability – Versatility

UHD HDR

SDI

IP

SDI and IP support

Industry-leading standard server models

R&S®VENICE
R&S®VENICE
R&S®SpycerBox Cell
R&S®SpycerBox Cell

Scalable in...
...channels
...capacity
...bandwidth

The new R&S®VENICE platform
Endless possibilities and advantages

The new R&S®VENICE platform can be flexibly adapted to your requirements thanks to its software architecture and scalability. For channel playout, studio and live applications, the best application scenario is always just a software license away. The foundation is our new R&S®VENICE server core paired with commercial off-the-shelf hardware and a video I/O board designed by Rohde & Schwarz. This allows R&S®VENICE to connect to traditional SDI infrastructures and be ready for upcoming IP technologies. You control the pace of the transition.

R&S®VENICE – built for today, ready for tomorrow.

Key Features

On-air reliability
The entire system has no single point of failure due to the redundancy of every system-relevant component.

Hybrid SDI/IP functionality
Equipped with a new video I/O board, R&S®VENICE now offers hybrid SDI and IP functionality. Whether you use SDI, IP or both at the same time – it just works.

Flexible system design
R&S®VENICE can be scaled to meet your requirements, no matter how many channels and how much storage capacity or bandwidth you need.

UHD and HDR-ready
R&S®VENICE supports up to one UHD p60 channel (bidirectional) and four HD p60 channels (bidirectional) and handles HDR material with ease.

Standard server platform
R&S®VENICE uses a standard IT server whose reliability and performance has proven itself a thousand times over in data centers worldwide.

Comprehensive software-based codec support
R&S®VENICE minimizes the need for transcoding by supporting a variety of software-based codecs that can be expanded via future software updates.

Service-oriented architecture
FIMS and web services communications allow the greatest possible interoperability, flexibility and integrability in the broadcast value chain. R&S®VENICE is easy to integrate into existing infrastructures and can be dynamically adapted to meet any requirement.

Storage options
R&S®VENICE can be equipped with up to 14 terabyte internal RAID storage and connected to external storage solutions.

- Reliability
- Hybrid SDI / IP
- Flexible system
- UHD / HDR
- COTS platform
- Multi-codec support
- Service-oriented
- Storage options

R&S®VENICE for channel playout

R&S®VENICE is built for 24/7 operation. The combination of a commercial off-the-shelf server, the new Rohde & Schwarz virtual storage access (VSA) technology and our proven R&S®SpycerBox Cell offers unrivalled stability and speed in challenging channel playout scenarios. The Rohde & Schwarz VSA layer serves as a separation plane between the software and hardware to simulate a single storage entity. Additionally, all system-relevant components are redundant to prevent a single point of failure.

R&S®VENICE channel playout – On air. 24/7.

Benefits

Major automation support
R&S®VENICE can be controlled via VDCP (serial and TCP/IP) and FIMS web services from industry-leading automation manufacturers.
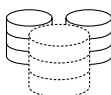
Device manager
Thanks to the new administration tool, you can set up and configure all R&S®VENICE servers, R&S®SpycerBox Cell storage units and R&S®Spycer Media Gateway servers in a network.

DolbyE decoding
R&S®VENICE can decode or simply pass through DolbyE coded audio content without requiring external systems.

Rohde & Schwarz virtual storage access technology (VSA)
To completely prevent single points of failure, the new Rohde & Schwarz VSA technology virtualizes a single point of access for redundant storage repositories. In combination with the redundant system-relevant components, the Rohde & Schwarz VSA technology enables continuous broadcast operations.
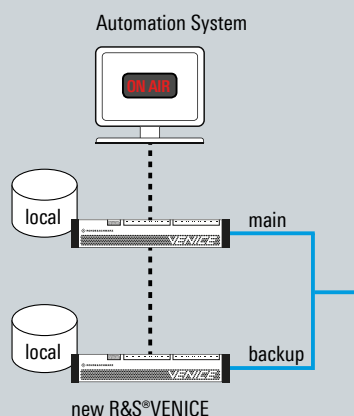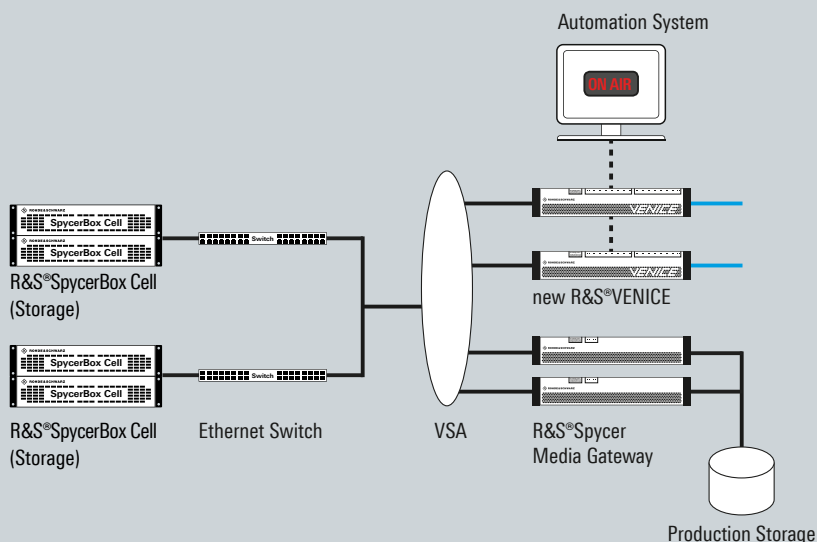
Centralized broadcast storage
An essential part of the playout solution is the high-performance R&S®SpycerBox Cell storage unit. R&S®SpycerBox Cell is a flexible and modular shared storage solution with up to 30 hot-swappable drives in one rack unit. It is the core of the R&S®VENICE broadcast environment, offering the perfect combination of performance, redundancy and easy maintenance.

Use case examples

1+1 redundancy

Automation System

ON AIR

local

main

local

backup

new R&S®VENICE

1+n redundancy

Automation System

ON AIR

R&S®SpycerBox Cell

R&S®SpycerBox Cell

R&S®SpycerBox Cell
(Storage)

Switch

R&S®SpycerBox Cell

R&S®SpycerBox Cell

R&S®SpycerBox Cell
(Storage)

Switch

Ethernet Switch

VSA

new R&S®VENICE

R&S®Spycer
Media Gateway

Production Storage

R&S®VENICE for studio production

R&S®VENICE is perfect for your studio applications. Top-notch hardware in combination with an improved software architecture, rich feature set and versatile software applications allow you to experience well-established studio applications at an unprecedented level. From multi-camera ingest to content preparation to studio playout and much more, R&S®VENICE is ready to master your challenge.

R&S®VENICE studio production – unmatched in flexibility.

R&S®VENICE application suite

R&S®VENICE Control
Rohde&Schwarz developed R&S®VENICE Control in close cooperation with leading studio operators to meet the high demands of multi-camera recordings. R&S®VENICE Control makes it possible to record up to 16 independent SD, HD or UHD-1 channels in all professional production and broadcast formats.

R&S®VENICE Maintenance
R&S®VENICE Maintenance was designed to meet the specific needs of administrators. As a client-server application, it lets you conveniently acquire log files from all R&S®VENICE systems in the network.

R&S®VENICE Play*
The R&S®VENICE Play software application was designed to simplify your life in hectic studio and live situations. R&S®VENICE Play provides clarity when managing multiple channels for studio and production playout applications.
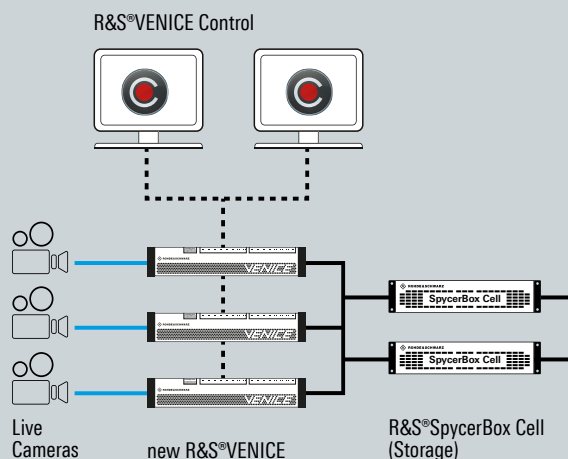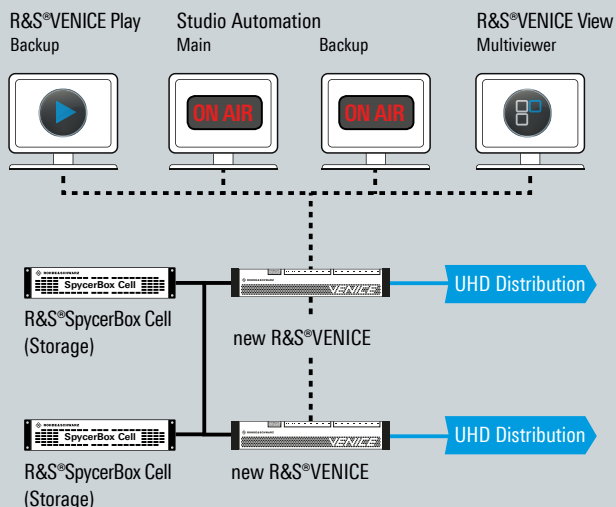
R&S®VENICE View
R&S®VENICE View, a dedicated multiviewer application from Rohde&Schwarz, is the perfect addition to the R&S®VENICE product line. R&S®VENICE View uses a sophisticated IP-based software architecture that makes costly conventional SDI infrastructure and dedicated multiviewer hardware obsolete.

* available April 2018

Multicam Ingest

R&S®VENICE Control

Live Cameras

new R&S®VENICE

R&S®SpycerBox Cell (Storage)

Studio Playout

R&S®VENICE Play
Backup

Studio Automation
Main   Backup

R&S®VENICE View
Multiviewer

ON AIR   ON AIR

R&S®SpycerBox Cell (Storage)

R&S®SpycerBox Cell (Storage)

new R&S®VENICE

new R&S®VENICE

UHD Distribution

UHD Distribution

Service that adds value

▪ Worldwide
▪ Local und personalized
▪ Customized and flexibel
▪ Uncompromising quality
▪ Long-term dependability

Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, monitoring and network testing. Founded more than 80 years ago, the independent company which is headquartered in Munich, Germany, has an extensive sales and service network with locations in more than 70 countries.

Sustainable product design

▪ Environmental compatibility and eco-footprint
▪ Energy efficiency and low emissions
▪ Longevity and optimized total cost of ownership

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